

19990814.qrp v01_n548.qrl.990814

Date: Sat, 14 Aug 1999 19:03:08 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1548

QRP-L Digest 1548

Topics covered in this issue include:

- 1) [47475] Just Another Ask the Experts
by mailbox-gaskins <pgaskin@imcnet.net>
- 2) [47476] Wire / Rope Ant.... Vertical Yagi for twenty
by hamjoel@juno.com
- 3) [47477] Differential SWR meter: Followup
by Wb4jjj@aol.com
- 4) [47478] For Sale: Emtech 20 meter xcvr
by Steven Mann <smann@advi.net>
- 5) [47479] QSL'ing
by Jess Gypin <jessqrp@earthlink.net>
- 6) [47480] FS MJF 949D Tuner
by Jess Gypin <jessqrp@earthlink.net>
- 7) [47481] good deals
by william h ross <k6mgo@juno.com>
- 8) [47482] AF Chain Order
by Michael C Boatright <ko4wx@mindspring.com>
- 9) [47483] GCGC by W2IOL--(Long)
by Russ Garner <71544.1645@compuserve.com>
- 10) [47484] Re: GCGC by W2IOL--(Long)
by Phil Wheeler <w7ox@mindspring.com>
- 11) [47485] Results of the 1999 FLIGHT OF THE BUMBLEBEES
by "Russ Carpenter" <russ@natworld.com>
- 12) [47486] test pls disregard
by "Alan Kaul" <alan.kaul@worldnet.att.net>
- 13) [47487] Re: Not quite QRP? - detection of QRP Microwave energy, Paper?
by Thomas Upton <stjohn@ocsnet.net>
- 14) [47488] Re: Microwaves and Neon bulb
by "Chuck Adams K7Q0" <adams@ticnet.com>
- 15) [47489] on air results of w/r ant
by hamjoel@juno.com
- 16) [47490] Results of the 1999 FLIGHT OF THE BUMBLEBEES
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 17) [47491] Great Consumer Electronic Repair Site
by "Randy Jouett" <rules@bellsouth.net>
- 18) [47492] ZL QRP contest
by barry kirkwood <bjk@ihug.co.nz>
- 19) [47493] RE DSW-40 won't tune... longish or long-winded.

- by GElam30092@aol.com
- 20) [47494] Checking FET In Circuit
by "Randy Jouett" <rules@bellsouth.net>
 - 21) [47495] Tire Static Interference
by "gus" <nease4@newnorth.net>
 - 22) [47496] RE: G5RV question answerd
by "Alex Mendelsohn" <ai2q@ispchannel.com>
 - 23) [47497] Re: on air results of w/r ant
by Phil Wheeler <w7ox@mindspring.com>
 - 24) [47498] Re: ZL QRP contest
by Phil Wheeler <w7ox@mindspring.com>
 - 25) [47499] Eurotransistors
by "Juan Jose Pastor Estornell" <juanjope@ctv.es>
 - 26) [47500] Re: Hot water Handbook appologies to Kanga
by "Randall K. Kennard" <Firefox@Southwind.Net>
 - 27) [47501] Re: QSL'ing
by "Robert Roach" <KE4Q0K@worldnet.att.net>
 - 28) [47502] Dual-Rhomboid Modeling
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
 - 29) [47503] Cleaning key contacts - Nye Master Key
by Caldera OpenLinux User <qrp@cisgw3.law.pace.edu>
 - 30) [47504] Re: Cleaning key contacts - Nye Master Key
by Phil Wheeler <w7ox@mindspring.com>
 - 31) [47505] Re: Cleaning key contacts - Nye Master Key
by Caldera OpenLinux User <qrp@cisgw3.law.pace.edu>
 - 32) [47506] more exciting than rare DX
by "Steve/n0tu" <n0tu@webaccess.net>
 - 33) [47507] Hensley Round Presentation Key
by "Paul Christensen" <paulc@mediaone.net>
 - 34) [47508] Re: Cleaning key contacts - Nye Master Key
by Caldera OpenLinux User <qrp@cisgw3.law.pace.edu>
 - 35) [47509] Re: Hensley Round Presentation Key
by "Rod Cerkoney" <rwc@frii.com>
 - 36) [47510] SWR/Harmonic Power Question
by "Charlie Fitts" <cfitts@neca.com>
 - 37) [47511] GM4XQJ
by Bruce Rattray <rattray@gpfn.sk.ca>
 - 38) [47512] Re: SWR/Harmonic Power Question
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
 - 39) [47513] Re: Cleaning key contacts - Nye Master Key
by Dave Marling <dbm@klis.com>
 - 40) [47514] RE: Cleaning key contacts - Nye Master Key
by Brad Bradfield <b_bradfield@yahoo.com>
 - 41) [47515] Re: [SWR/Harmonic Power Question]
by Roy Lincoln <wa4dou@usa.net>
 - 42) [47516] Thirty Mile Point Light activity for International Weekend
by "Al Gritzmacher " <ae2t@arrl.net>
 - 43) [47517] 40 mtr fox hunt & Teams

by Bruce Rattray <rattray@gpfn.sk.ca>
44) [47518] Want WW2 Command Set
by George F Franklin <w0av@juno.com>
45) [47519] Re: Cleaning key contacts - Nye Master Key
by af852@rgfn.epcc.edu (William R Colbert)
46) [47520] 40 mtr fox hunt & Teams (fwd)
by Bruce Rattray <rattray@gpfn.sk.ca>
47) [47521] Re: Tire Static Interference
by af852@rgfn.epcc.edu (William R Colbert)
48) [47522] Re: Want WW2 Command Set
by Phil Wheeler <w7ox@mindspring.com>
49) [47523] QRP-C Happy Birthday sprint
by Bruce Rattray <rattray@gpfn.sk.ca>
50) [47524] QRP RADIO HELP
by Robert P Engelman <rengelwb8uoj@juno.com>
51) [47525] Re: QRP-C Happy Birthday sprint
by Phil Wheeler <w7ox@mindspring.com>
52) [47526] Web Page Host (non-QRP)
by "Ron Polityka" <wb3aal@talon.net>
53) [47527] Worked Larry
by "Dieter Gentzow WB8QYY" <wb8qyy@one.net>
54) [47528] Re: Hensley Round Presentation Key
by "The One and Only!" <mitch96@pobox.com>
55) [47529] Re: Want WW2 Command Set
by George F Franklin <w0av@juno.com>
56) [47530] Re: Want WW2 Command Set
by Phil Wheeler <w7ox@mindspring.com>
57) [47531] Re: QRP RADIO HELP
by Phil Wheeler <w7ox@mindspring.com>
58) [47532] Recipients List
by "Chuck Adams, K7Q0" <k7qo@hotmail.com>
59) [47533] Re: Recipients List
by Phil Wheeler <w7ox@mindspring.com>
60) [47534] Just arrived "Pre Owned" TenTec Omni-C-/qrp of course.
by "The One and Only!" <mitch96@pobox.com>
61) [47535] Hensley Round Presentation Key
by Anita och Lars Olsson <anita.lars.olsson@telia.com>
62) [47536] Re: Recipients List
by "The One and Only!" <mitch96@pobox.com>
63) [47537] Re: Recipients List
by Phil Wheeler <w7ox@mindspring.com>
64) [47538] FS: TT Triton 540
by "Tim Cook" <timcook@erinet.com>

Date: Fri, 13 Aug 1999 19:21:40 -0400
From: mailbox-gaskins <pgaskin@imcnet.net>

To: qrp-1@lehigh.edu
Cc: pgaskin@imcnet.net
Subject: [47475] Just Another Ask the Experts
Message-ID: <199908132321.TAA10833@ns1.imcnet.net>

Dear Experts,

Thanks for all the advice so far.I've got another question to ask.
This one is about the Norcal 38Spcl.

I have had a love hate relationship on and off for the last 2yrs.
with this kit since I attempted to build it.I had problems right
away when I did the Mike Gipe 5w mod without seeing if it would
work in stock form.I followed every step throughout the entire
building process very carefully.When first applying 12v the resistor
R104 smoked and did so repeatedly after changing it out.I then
replaced the IRF510 and the smoke stopped.

The receiver works but,the received signals sound very weak.The
sidetone however is plenty strong enough.On transmit the sidetone
sounds fine but,the needle on my forward power meter will not move.
I am able to hear the cw note on my "big rig".I have tried various
fixes from removing a few turns from the secondary of T1 to removing
and jumpering R24.

The only mistake I have found I did was having the wrong cap value
for C26(150pf instead of the suggested 330pf,will fix that soon).

Another peculiar happening was the overcurrent protection on my
power supply tripping when I bypassed the output filters(during
rx)with the center conductor of my antenna coax.

I have been really scratching my head on this as I am a very
novice builder with no Elmers in my area with any building or
troubleshooting experience.

Any help would be greatly appreciated.The only test equipment
I own is a digital multimeter and my "big rig".

Thanks for the bandwidth as always!!!!

Pete
N2PG

Date: Fri, 13 Aug 1999 19:43:46 -0400
From: hamjoel@juno.com
To: qrp-1@lehigh.edu
Subject: [47476] Wire / Rope Ant.... Vertical Yagi for twenty
Message-ID: <19990813.194433.-216915.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi everybody:

I got to playing today and strung a rope between two trees...I couldn't find another tree to make a horizontal ant so I just hung the three elements from the rope vertically... a feflector, driven, and a director...

I hose clamped a couple of 15ft dowel (closet) rods together and connected the bottom of the three emements to it... the spacing was 14ft... freq is 14.05 Mhz

the antenna is pointed right at louisiana and the bottom is abut ten feet off the ground.... I listened to a dx net for a while and then monitored the sstv freq and I was receiving stations from all over the world...south america, europe, the us.... long path was working good today....

I am feeding the driven element with 300 ohm twin lead and end feeding it... works great.... loads well and the wires don't sag... I have a twin lead for the two element forty yagi also, so I got a dpdt switch and made an antenna switch for the two twin lead leadins.... works great... an't lo power great....

well got some things on my mind and I want to copy a dl4 on sstv so I tell u more about the w/r ant later...

Joel KE1LA

In Maine

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Date: Fri, 13 Aug 1999 20:08:25 EDT

From: Wb4jjj@aol.com

To: qrp-l@lehigh.edu

Subject: [47477] Differential SWR meter: Followup

Message-ID: <c33cb079.24e60d79@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Idon't get much email, so had a nice day reading all the blasts about my temerity in posting, as a pretty rank beginner, my review of the Dan's Differential SWR Bridge kit.

Here's some more on the project.

You may recall that I ordered this kit from Dan since I had never dealt with him or his products. What you may not know is that I am one of those who need a bit of luck and the wind at my back, etc. to get anything electronic

to work. So read on.

The circuit is now cased in, and some coax leads inside the case eased away the impedance bump and it works like a champ. Doesn't need power, is quite accurate (compared to my Autek computing meter) and is small and very quick to operate. I got it to work right off, and most any beginner could, too (OK, so maybe I was lucky!).

The circuit is the brainchild of K5BDZ, the father of the Tejas kits. The theory behind it is that reflected power can never be greater than forward power. So both forward and reflected power are picked off the feedline and fed to a meter where the "fight" or counteract each other and move the needle. High forward voltage and low reflected voltage produce the highest needle reading. Low forward voltage and high reflected voltage produce a low meter reading. A variable resistor sets sensitivity. it seems like a brilliantly simple idea, but remember I have built half a dozen SWR bridges and this is the first one that worked. Only drawback is that the meter reads lowest SWR at its highest point, which take getting used to.

Anyway, everything was in the kit, except a pair of BNC connectors (Mentioned by type only so I will get even more mail) and a case. Used the computer to make a new meter scale (never did that before either). All the parts appeared to me to be new, but what do I know? No solder on anything, leads were straight and bright, etc. I thought the kit was nicely done for \$12.95.

The copy of the Hambrew magazine article in which the circuit appears and which comes with the kit shows several variations on this circuit and I'll probably try these as well, I don't know Dan. I don't know those who emailed me today. I do know several local hams, none of whom have ever bought or built kits from Dan.

73, Al, WB4JJJ
Fairfax, Virginia

Date: Fri, 13 Aug 1999 21:52:43 -0400
From: Steven Mann <smann@advi.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [47478] For Sale: Emtech 20 meter xcvr
Message-ID: <37B4CBEB.857C7363@advi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For Sale:

Emtech NW8020 20 meter cw xcvr with case and built in AF-1
CW filter.
Completely assembled and working. Includes manuals and power
connector.

See info on this rig at Emtech web site:
<http://emtech.steadynet.com/>

I received this item in trade and it checks find. Will sell
for \$100 which includes shipping in the continental US.

Steve, N4EY

Date: Fri, 13 Aug 1999 20:15:57 -0600
From: Jess Gypin <jessqrp@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [47479] QSL'ing
Message-ID: <3.0.3.32.19990813201557.006ac340@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I think that QSL's are great. I ask for them very rarely anymore. If I want
the other fellows QSL, I send a card and an SASE. If you want my QSL, then
you need to send an SASE. It does not matter that you mark PSE QSL. It is a
matter of courtesy. In these times of high costs and all, then I think that
it is only fair. If a ham does not send me an SASE and then I return the
ASL via post card mail, and then sends me another letter complaining that
the card was messed up, it is his problem for not sending the SASE. He will
never get my card again. No class.

There, now I feel better. Have some class, send the SASE.

Jess AE0CW

Date: Fri, 13 Aug 1999 20:29:32 -0600
From: Jess Gypin <jessqrp@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [47480] FS MJF 949D Tuner
Message-ID: <3.0.3.32.19990813202932.006ac340@mail.earthlink.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

Tuner for sale. MFJ 949D. Has seen some use. A few scratches and another hams call on the back. This is a legacy tuner. It was sold to me to start me out and now I would like to sell it to someone that needs a good basic tuner for a good price. A fellow ham passed it to me to start me out and now I would like to do something similar. I have the original manual. \$50.00 and you pay the shipping.

Jess AE0CW

Date: Fri, 13 Aug 1999 19:35:04 -0700
From: william h ross <k6mgo@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [47481] good deals
Message-ID: <19990813.193505.-4021941.0.k6mgo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just a point of information.

I placed my first order with All Electronics, on Wed. and by Thursday, UPS delivered it. Unbelievable.

I had ordered a 12 volt, 500ma battery charger (wall wart) for \$4.50 and 4 AA rechargeable nicads, new, at \$1.75, and a pair of headphones, stereo, minis that plug in your ear, the type used for portable CD's, for 85 cents, yes \$0.85.

Hooked the charger to my 7.2 Ahr gel cell with a ma meter in series, and it was charging at about 350 ma, of course the battery was not discharged very much, so maybe with a more discharged battery, it would go the full 500ma.

Tried the ear phones in the rig and MFJ code turor, and got the same volume as my \$20.00 RS stereo headphones.

Am charging up the nicads for back up for my digital camera, they seem to be OK.

Just thought that the service was very good and the parts seem to be as advertised.

For your info.

73/72

Bill K6MGO

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Date: Fri, 13 Aug 1999 22:51:33 -0400
From: Michael C Boatright <ko4wx@mindspring.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [47482] AF Chain Order
Message-ID: <37B4D9B5.6B414C85@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I'm HB'ing a 40/20 XCVR and have config'ed the AF chain like this:

Singly-balanced Mixer --> 10Kpot --> NE5532 AF preamp --> Active AF
filter --> LM386 AF PA (reduced gain config).

I'm using the NE5532 to give AF gain w/ less noise, and then the LM386
at the end to boost the final AF power...

Is it better to put the AF filter AFTER the preamp (as above), BEFORE
it, or does it matter? I'm assuming unity gain in the filter.

--

Mike Boatright, K04WX
District EC, GEMA, Amateur Radio Emergency Service

A rock pile ceases to be a rock pile the moment a single man
contemplates it, bearing within him the image of a cathedral.
Antoine de Saint-Exupery

Date: Fri, 13 Aug 1999 23:06:55 -0400
From: Russ Garner <71544.1645@compuserve.com>
To: QRP-L <QRP-L@LEHIGH.EDU>
Subject: [47483] GCGC by W2IOL--(Long)
Message-ID: <199908132307_MC2-80F7-D2B1@compuserve.com>

MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
 charset=ISO-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Greetings, QRP-L'ers--

I want to call your attention to the "Stray" on page 44
of the August *QST*--which announces the availability
of Ron McConnell's GCGC9900.ZIP at
<http://home.adelphia.net/~nj2dx/hoarc/gcgc9900.zip>

The following is a snippet from an "announce.txt" file
that Ron included in the zip package--

(...snip...)

I have just released a ham-oriented freeware DOS
program, GCGC, that you may check out and pass on
if you are interested. It's a tiny attempt at paying
back all the free info and software that I've found and used.

GCGC does (or has):

- great circles: bearings, distances
- ellipsoidal earth models (US NGS inverse [like BD.exe] & direct)
- magnetic bearings (US DoD World Magnetic Model)
- -MaxiMUF (NM7M) flux or spots in, tables and plots out
- lat+long/Maidenhead grid-locator input/output
- default home location
- DOS command line or file input
- screen &/or file output
- DX database (replaces the 3-year old dx_w2iol data at QRZ and ARRL)
 - up to date as of E4 and VY0
 - 2-step link to great-circle/MUF for now, direct in future
- HP DOS Palmtop compatibility

Unused features are hidden until you call for them.

You can do a full blown great-circle and MUF run,
or only great-circle bearings and distances,
or only a lat/long-grid conversion with a few keystrokes--
more or less.

(...snip...)

Cheers, 73,
Ron McConnell, w2iol
(end of snippet)

With a miserable flux value of 127 for October 13, I decided to

let GCGC give me the bad news about the path from my house in eastern Iowa to AL7FS in Alaska--Jim's house. I hope you will indulge me as I present verbatim a piece of the GCGC output. Over the years, I have garnered (tm, sm, and pat. pending) a big bunch of grid locators, call signs and names from QRP-L signature lines. So I have rigged GCGC to give me the fourth line, labeled *Input =3D Sta. 2 =3D* when I enter a batch file name and a call sign at the DOS prompt. The flux value *127 F* is added in a second step. Well, 2714 miles to Jim's house at a magnetic bearing of 318 degrees. Takes 2 F-hops to get there and the optimum radiation angle is 10.8 degrees. And as the chart shows, I have, at best, about a 50-percent chance of making it on 20 meters during the 24-hour period--but better odds on 30 meters. The GCGC extract follows.

Regards, Russ Garner, WA0UIG, Marion, Iowa

---***---

GCGC =3D Great Circles, Grid-locators & Coordinates
[V.1999.00, 99/Mar/31, w2iol]

Home =3D Sta. 1 =3D N 42.041639 W 91.562605 \$ Russ, WA0UIG; Marion, IA =
USA =

Input =3D Sta. 2 =3D 127 F BP51cc \$ AL7FS Jim =

(...snip...)

Ellipsoid: Clark 1866 (NAD27) =

Short Path: 1-2 =3D 319.38 deg 2713.458 mi
2-1 =3D 91.64 deg 4366.887 km 2357.931 nmi

(...snip...)

Magnetic: 1-2: Short: 318 Long: 138 deg
[1999.62] 2-1: Short: 69 Long: 249 deg

MAXIMUF 3.0

=

Xmtr/St.1: 42.04 N 91.56 E Grid X =3D EN42fa Time Zone Xtz =3D -5 =3D=
S

Rcvr/St.2: 61.10 N 149.79 E Grid R =3D BP51cc Time Zone Rtz =3D -9 =3D=
W

Month =3D 8 =3D Aug Dist =3D 4356. km =3D 2707. mi

F-hops =3D 2 Hop =3D 2178. km =3D 1353. mi Rad Ang =3D 10.8 deg

Flux =3D 127.0 Spots =3D 79.0

=

UTC	f(90%)	f(50%)	f(10%)	Xtz	Rtz
hr	MHz	MHz	MHz	(-5)	(-9)
0	13.6	16.0	19.2	19	15
1	13.6	16.0	19.4	20	16
2	13.6	16.1	19.6	21	17
3	13.6	16.1	19.7	22	18
4	13.2	15.7	19.4	23	19
5	12.7	15.1	18.7	0	20
6	12.1	14.5	18.0	1	21
7	11.5	13.8	17.1	2	22
8	10.9	13.1	16.2	3	23
9	10.3	12.3	15.2	4	0
10	9.6	11.4	14.0	5	1
11	8.8	10.4	12.7	6	2
12	9.6	11.3	13.7	7	3
13	8.8	10.3	12.4	8	4
14	10.3	12.0	14.4	9	5
15	11.0	12.8	15.3	10	6
16	11.7	13.6	16.1	11	7
17	12.4	14.2	16.8	12	8
18	12.9	14.8	17.4	13	9
19	13.3	15.2	17.9	14	10
20	13.5	15.5	18.3	15	11
21	13.6	15.8	18.6	16	12
22	13.7	15.9	18.9	17	13
23	13.7	16.0	19.1	18	14
0	13.6	16.0	19.2	19	15
hr	MHz	MHz	MHz	(-5)	(-9)
UTC	f(90%)	f(50%)	f(10%)	Xtz	Rtz

=

Ctrl Pt #1: 49.1 N Lat & 101.3 W Long
Ctrl Pt #2: 59.4 N Lat & 130.3 W Long
* =3D Maximum Usable Frequency =3D f(50%) =3D "median MUF"
"- " =3D Low/f(90%) to High/f(10%)

(...snip...)
(...snip...to end of output.dat file)

--30--

Date: Fri, 13 Aug 1999 20:14:13 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: 71544.1645@compuserve.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [47484] Re: GCGC by W2IOL--(Long)
Message-ID: <37B4DF05.2B1CE866@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Got it, Russ .. and thanks.

Now I need a version for my Palm Pilot!

Phil

Russ Garner wrote:

>
> Greetings, QRP-L'ers--
>
> I want to call your attention to the "Stray" on page 44
> of the August *QST*--which announces the availability
> of Ron McConnell's GCGC9900.ZIP at
> <http://home.adelphia.net/~nj2dx/hoarc/gcgc9900.zip>
>
> The following is a snippet from an "announce.txt" file
> that Ron included in the zip package--
>
> (...snip...)
> I have just released a ham-oriented freeware DOS
> program, GCGC, that you may check out and pass on
> if you are interested. It's a tiny attempt at paying
> back all the free info and software that I've found and used.
>
> GCGC does (or has):
> --great circles: bearings, distances
> --ellipsoidal earth models (US NGS inverse [like BD.exe] & direct)
> --magnetic bearings (US DoD World Magnetic Model)
> - -MaxiMUF (NM7M) flux or spots in, tables and plots out
> --lat+long/Maidenhead grid-locator input/output
> --default home location
> --DOS command line or file input
> --screen &/or file output
> --DX database (replaces the 3-year old dx_w2iol data at QRZ and ARRL)
> - up to date as of E4 and VY0
> - 2-step link to great-circle/MUF for now, direct in future
> --HP DOS Palmtop compatibility
>

Date: Fri, 13 Aug 1999 20:31:38 -0700
From: "Russ Carpenter" <russ@natworld.com>
To: "QRP-L List" <qrp-l@lehigh.edu>
Subject: [47485] Results of the 1999 FLIGHT OF THE BUMBLEBEES
Message-ID: <199908140331.UAA01638@guppy.pond.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

The 1999 Flight of the Bumblebees was splendid. Scores of eager Bees explored some of the most interesting country in America, and home-based operators had a fine time chasing them.

15 meters was marginal for most of us, but 20 meters was smokin'. It was hard to believe that tiny stations could, collectively, make so much noise.

Here are the 1999 champs:

Most Beautiful Site--Allan Taylor, KG7T and Ed Loranger, WE6W

Most Interesting Equipment--John Cumming, VE3JC/BB (bicycle mobile)

Most Outrageous Venture--Father John Conrad, WB6MFS/XE

Top Bumblebee Score--Dennis Brickey, N4DD/BB

Top Home-Based Score--Jim Lageson, N0UR

The Soapbox, as well as some remarkable stories and photos have been published today in a special "Bumblebee Supplement" to the August edition of The ARS Sojourner. Don't miss this extraordinary material!
<http://www.natworld.com/ars>.

And here are the scores for the 1999 Flight of the Bumblebees. Thanks to all who participated!

Call	40m	20m	15m	10m	Points	Bees	Score
N0UR	2	81	11	0	186	44	24552
N4DD/BB	16	69	8	0	170	39	19890
N6MM/BB	14	36	22	0	130	42	16380
K5LN/BB	0	39	12	0	102	51	15606
N0SXX/BB	0	60	9	0	138	32	13248
W7EL/BB	0	52	13	0	130	29	11310
WQ4RP/BB	0	62	8	0	140	26	10920

W5RXP	0	41	15	0	112	31	10416
W1VT	12	34	10	0	100	32	9600
AA7QU/BB	0	45	12	0	114	27	9234
KI0II/BB	1	43	15	0	117	25	8775
N9KW	5	32	9	0	87	33	8613
W5CGH/BB	0	47	0	0	94	27	7614
N7XJ/BB	0	56	3	0	118	21	7434
N4ROA/BB	16	20	20	0	96	24	6912
W6WG/BB	7	34	10	0	95	24	6840
K1QM/BB	12	28	12	0	92	22	6072
VE3ELA/BB	16	30	0	0	76	26	5928
WT9S	4	32	4	0	76	25	5700
N2CQ/BB	20	31	0	0	82	21	5166
AC6KW/BB	2	32	5	0	76	22	5016
W0UFO	0	37	0	0	74	22	4884
W3BBO	15	25	0	0	65	25	4875
W9SUL/BB	0	39	0	0	78	18	4212
AA1MY/BB	14	27	0	0	68	20	4080
K7GT/BB	16	21	0	0	58	23	4002
K07X	2	32	0	0	66	19	3762
N8NRG	0	24	2	0	52	24	3744
WA9PWP	0	31	0	0	62	20	3720
WA4SQM	0	37	2	0	78	15	3510
N7CQA/BB	0	30	4	0	68	17	3468
N7CEE/BB	2	29	0	0	60	18	3240
K4KJP	0	21	6	0	54	19	3078
AK7Y/BB	0	34	0	0	68	15	3060
K7TQ/BB	0	33	0	0	66	15	2970
KD3FG/BB	24	18	2	0	64	15	2880
N7GS	0	23	0	0	46	19	2622
AE4IC	0	25	0	0	50	16	2400
WB0FT/BB	0	27	0	0	54	14	2268
AA8PJ/BB	0	25	0	0	50	15	2250
K8CV	0	29	1	1	62	11	2046
KE5TC	0	17	0	0	34	17	1734
K2HPV	10	13	0	0	36	15	1620
KB7MBI	1	18	2	0	41	13	1599
K5RAC/BB	0	20	0	0	40	12	1440
N1SB	0	18	2	0	40	11	1320
KQ5U	0	18	0	0	36	12	1296
KB9LCK	0	19	0	0	38	11	1254
WE6W/BB	14	9	0	0	32	13	1248
AD4MZ/BB	0	23	0	0	46	9	1242
WD3P/BB	16	12	0	0	40	10	1200
WB3AAL/BB	4	17	4	0	46	8	1104
KG0MZ/BB	1	16	0	0	33	11	1089
N0QT/BB	0	18	0	0	36	10	1080
AD6GI	6	0	12	0	30	12	1080

N5WU	0	9	4	0	26	12	936
AA0XJ	0	13	0	0	26	11	858
W6AGS/BB	0	13	0	0	26	10	780
VE3JC/BB	0	14	0	0	28	9	756
KB2RAR/BB	14	6	0	0	26	9	702
K7MPH	0	10	1	0	22	10	660
KD5LX	0	13	0	0	26	8	624
WA3WSJ	0	16	0	0	32	6	576
KA2BE0/BB	12	6	0	0	24	7	504
KA8LLE	0	20	0	0	40	4	480
AC5K/BB	0	9	2	0	22	7	462
K0Y0/BB	1	6	7	0	27	5	405
VE7CQK/BB	0	12	1	0	26	5	390
AA8WQ/BB	15	0	0	0	15	8	360
N2PG	2	7	0	0	16	6	288
W4Q0/BB	0	9	0	0	18	5	270
VE3TEQ/BB	0	9	0	0	18	5	270
KQ6NO/BB	10	0	0	0	10	8	240
AB70A/BB	0	7	1	0	16	5	240
W2N /BB	0	9	0	0	18	4	216
KC1FB	0	7	0	0	14	5	210
VE6AAN	0	6	1	0	14	5	210
K04WX	0	11	0	0	22	3	198
KI6SN/BB	10	0	0	0	10	6	180
KQ6DV/BB	8	0	0	0	8	5	120
W4IM	4	1	0	0	6	5	90
W7/JR1NKN	0	0	4	0	8	3	72
AE4GX	0	2	0	0	4	1	12
WB6MFS/XE	0	1	0	0	2	1	6

Russ Carpenter, AA7QU
Contest Manager

Date: Fri, 13 Aug 1999 20:42:31 -0700
 From: "Alan Kaul" <alan.kaul@worldnet.att.net>
 To: <qrp-l@lehigh.edu>
 Subject: [47486] test pls disregard
 Message-ID: <19990814034143.EVAT2068@oemcomputer>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=ISO-8859-1
 Content-Transfer-Encoding: 7bit
 Content-Transfer-Encoding: 7bit

TEST (to see if ''postpone command'' worked)

Alan Kaul, W6RCL, LaCanada-Flintridge, CA
url: <http://alan.kaul.home.att.net/>
e-mail: w6rcl@amsat.org

Date: Fri, 13 Aug 1999 21:13:55 -0700
From: Thomas Upton <stjohn@ocsnet.net>
To: qrp-1@lehigh.edu
Subject: [47487] Re: Not quite QRP? - detection of QRP Microwave energy, Paper?
Message-ID: <37B4ED03.8943FCA5@ocsnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

One of the earliest books I read on Microwave energy used a neon bulb which was scanned past the orifice of the microwave horn, using a Photographic camera open during the experiment. One could clearly see the entire pattern.

Tom Upton AD6N 36N at 119 W.

Date: Fri, 13 Aug 1999 23:29:28 -0500
From: "Chuck Adams K7Q0" <adams@ticnet.com>
To: qrp-1@lehigh.edu
Subject: [47488] Re: Microwaves and Neon bulb
Message-ID: <E11FUGn-00046U-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Good historical information.

Another use that someone brought up at Austin was to use the old NE-2 neon bulb across the open wire or window line to keep the static buildup below 100 volts or so on the long wire. But that might be too late for some finals and some receiver front-ends.

I remember back some 4 or more years ago someone

used 3K or so non-inductive resistor across the feed line to keep the potential low on the input to the tuner.

FYI

Chuck Adams K7Q0/5 adams@ticnet.com <http://www.qsl.net/k7qo/>

Date: Sat, 14 Aug 1999 00:50:45 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [47489] on air results of w/r ant
Message-ID: <19990814.005323.-257517.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

hi gang

well I worked a yu1, yv5anf,
aparently I'm going long path into europe and direct to south america on
twenty...

If the thing doesn't pull in the stateside sstv stations in the morning
I guess I'll just point it toward europe and be done with it...

I am kinda thinking of adding a second reflector to the ant... does
anyone kneaux if I should make the second ref the same size at the first
or add another 6% to it????

Joel KE1LA
In Maine

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 14 Aug 1999 01:22:56 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:russ@natworld.com" <russ@natworld.com>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group
<QRP-L@Lehigh.edu>
Subject: [47490] Results of the 1999 FLIGHT OF THE BUMBLEBEES
Message-ID: <199908140125_MC2-80EB-CE1D@compuserve.com>

MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Russ and Gang:

Sorry now that I never could manage to get a log submitted. Just too many things going on here at that time ;^(.

But never fear--if anyone worked K0EVZ/BB and needs a ND QSL, simply send one my way. Would greatly appreciate at least an addressed envelope, simply due to the volume of QSL's received. Thanks.

And Russ you are right about 20--it was absolutely smokin' here. Already looking forward to BB2K.

72,
--Doc Lindsey/K0EVZ
DSBF
PO BOX 6028
Bismarck, ND 58506
70511.3041@compuserve.com

Date: Sat, 14 Aug 1999 00:42:30 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47491] Great Consumer Electronic Repair Site
Message-ID: <002901bee618\$07b8aea0\$90e498cd@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

You guys "have" to check out this site. Rudy, WA5BBP sent this link to me, and it's loaded with repair tips on consumer electronics, such as VCR's, TV's, CD-ROM drives, CD Players, bread makers, stereos, and about a bazillion other devices!!! It also has some good tips on soldering, and it even it even tells you how to build some great, basic electronic repair equipment. Give it a shot!

<http://www.pacwest.net/byron13/sam/sammenu.htm>

72/73,

Randy Jouett, AB5NI

Date: Sat, 14 Aug 1999 17:54:52 +1200
From: barry kirkwood <bjk@ihug.co.nz>
To: qrp-1@Lehigh.EDU
Subject: [47492] ZL QRP contest
Message-ID: <199908140554.RAB15937@smtp1.ihug.co.nz>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just to let you know that there is a ZL QRP contest on:
0800-1100Z, 14, 15 August.
80 metre cw. most ZL stations between 3500-3530
There will also be QRP and QRO VKs active.
ZLs send: RST, two digit NZART branch number, two digit power number (05=5watts)
Others RST plus three digit serial number
QRO to QRP qsos welcome by the ZLs
Contest contacts may be made once each hour.

I am not an official organiser, but would be happy to receive any e-mail reports of ZL stations heard etc.

Thanks es 73
Baz ZL1DD
end
Barry (Baz) Kirkwood PhD ZL1DD ex ZL1BN, ZL40K etc
Signal Hill
66 Cory Road
Palm Beach
Waiheke Island 1240
NEW ZEALAND
www.waiheke.co.nz/signal.htm
Ph/Fax 64-9-372-5161

Date: Sat, 14 Aug 1999 01:55:04 EDT

From: GElam30092@aol.com
To: qrp-1@lehigh.edu
Subject: [47493] RE DSW-40 won't tune... longish or long-winded.
Message-ID: <86980ee0.24e65eb8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> Time for a new shaft encoder I think. <snip> I shouldn't take credit for something I haven't done > yet.....until I demonstrate it is fixed that is.<

The shaft encoder arrived today and I just finished replacing the old one. It appears to tune correctly now!

Thanks to several folks who offered me a word or two of encouragement. I do appreciate it.

Also, finished the Emtech tuner tonight. Will pick up one or two more items tomorrow and put it all together to see if it all works correctly!

Cheers,
Gerry, K1LR0
PHX AZ

Date: Sat, 14 Aug 1999 01:25:21 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47494] Checking FET In Circuit
Message-ID: <005c01bee61d\$cb4e50e0\$90e498cd@spock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Trying to fix another "10 Mtr QRP to Be" rig (a CB :^)),
and I have a couple of questions. Here goes...

Is there a "general rule" for checking an in-circuit FET?
I know that you can test a bipolar in circuit by putting the leads across the emitter and base, and if you don't see a reading of ~ .6 volts (or there about), you know that

the transistor is bad.

What I want to know: can you do the same thing with an FET?
Would I look for a ".2-.3" volts across the gate and source?
If anyone can help, I'd really appreciate it!

72/73,

Randy Jouett, AB5NI

Date: Sat, 14 Aug 1999 07:42:37 -0500
From: "gus" <nease4@newnorth.net>
To: <qrp-1@Lehigh.EDU>
Subject: [47495] Tire Static Interference
Message-ID: <002101bee652\$efa00120\$1d2b53d1@newnorth.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi guys really enjoy reading the list but now need your expert advice.

I drive truck all over the country and have noticed increased static on my HF radios and have come to the conclusion the interference is being generated from my tires. The QRN gets worse on old concrete and just about gone when driving on newer asphalt. Also when the QRN is at its worst and I apply the brakes, which have metallic pads, the QRN disappears. I have heard that years ago tires were made with carbon black in them and this static generation was not a problem, but now tires are made with silicon and not using carbon black anymore which causes the tires to generate a static charge that is being picked up by my antennas.

My equipment is all well grounded and have ruled out powersupply RF. I have heard that intalling graphite inside the tires will reduce this static generation by the graphite picking up the charge and as the tire rotates grounds the charge. Has anyone experienced or has information on this static generation and possible cures.

Most of the time I can work stations fine but the weaker sigs are covered up by this QRN. Thanks for your reply in advance. 72

David Nease KB9IOT/M nease4@newnorth.net
MFJ 9040, Hustler, Pixie, Timewave dsp

Date: Sat, 14 Aug 1999 09:07:48 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47496] RE: G5RV question answerd
Message-ID: <000801bee656\$01b88b40\$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It sounds like you're going up to Grey Knob or The Log Cabin off Lowe's Path
Steve! N2RI and myself operated an HW-8 quite a few years back from The
Perch during a period of rainy and cold WX. lotsa fun.

GL on your climb. Hope to QSO wid u too!

Vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Steven Weber
> Sent: Friday, August 13, 1999 1:33 PM
> To: Low Power Amateur Radio Discussion
> Subject: G5RV question answerd
>
>
> Thanks for all the info guys! Many good replys.
>
> Looks like I got what I need to try it out.
>
> Also looks like some rain here in NH for the weekend, so Wx
> permitting, I'll try one out and post the dimentions I come up with,
> as most likely there are others here that might be interested.
>
> I'll be shotting for a "no tune" 40/20 M version, as not to have to
> carry a tuner.
>
> I plan on hiking up to a little log cabin which is 2.5 miles and a
> 2500 ft climb from the road for QRPTTF in September, so what to keep
> it light and simple.

>
> 72,
> Steve, KD1JV in the white Mountains of New Hampshire
> "melt solder"
>

Date: Sat, 14 Aug 1999 06:46:06 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: hamjoel@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47497] Re: on air results of w/r ant
Message-ID: <37B5731E.87EF2266@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

w/r antenna: What is that? I must have missed something (not unusual!).

Phil

hamjoel@juno.com wrote:

>
> hi gang
> well I worked a yu1, yv5anf,
> aparently I'm going long path into europe and direct to south america on
> twenty...
> If the thing doesn't pull in the stateside sstv stations in the morning
> I guess I'll just point it toward europe and be done with it...
> I am kinda thinking of adding a second reflector to the ant... does
> anyone kneaux if I should make the second ref the same size at the first
> or add another 6% to it????
>
> Joel KE1LA
> In Maine
>
> -----
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 14 Aug 1999 06:49:35 -0700
From: Phil Wheeler <w7ox@mindspring.com>

To: bjk@ihug.co.nz
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47498] Re: ZL QRP contest
Message-ID: <37B573EF.5DA2BCE2@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Barry,

What does "Contest contacts may be made once each hour" mean?

Phil

barry kirkwood wrote:

>
> Just to let you know that there is a ZL QRP contest on:
> 0800-1100Z, 14, 15 August.
> 80 metre cw. most ZL stations between 3500-3530
> There will also be QRP and QRO VKs active.
> ZLs send: RST, two digit NZART branch number,two digit power number (05=5watts)
> Others RST plus three digit serial number
> QRO to QRP qsos welcome by the ZLs
> Contest contacts may be made once each hour.
>
> I am not an official organiser, but would be happy to receive any e-mail
> reports of ZL stations heard etc.
>
> Thanks es 73
> Baz ZL1DD
> end
> Barry (Baz) Kirkwood PhD ZL1DD ex ZL1BN, ZL40K etc
> Signal Hill
> 66 Cory Road
> Palm Beach
> Waiheke Island 1240
> NEW ZEALAND
> www.waiheke.co.nz/signal.htm
> Ph/Fax 64-9-372-5161

Date: Sat, 14 Aug 1999 15:56:52 +0200
From: "Juan Jose Pastor Estornell" <juanjope@ctv.es>
To: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [47499] Eurotransistors
Message-ID: <000401bee660\$eedf19c0\$248219d4@juanjopectv>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

Dear list friends,

From time to time a message appears asking about european devices, especially bipolar and field effect transistors, and their american equivalents. Hope this lines to be of help ...

Some critters:

The 2N2222 in metal can has exactly the same pinout that the BC107/108/109 transistors, but maybe has better RF behavior than the european ones. Almost any european low frequency and low power NPN transistor can be substituted by PN2222 (the plastic version), 2N3904, 2N4401 critters. An advice: check pinout, maybe you ll need to turn the critter you use (CBE against EBC, read lines below, hi hi ...).

I have an easy european substitute for the MPF102 ...the BF245. Same pinout but reversed, i.e., if one is mounted with the flat side towards a point (any side) the other must be mounted with the rounded side towards that point. The same occurs with some european/american transistors pairs like BC547/548/549 and 2N3904/PN2222, BC557/558/559 and 2N3906 (this one PNP ...) and others. Hope this helps any of you to understand this "mess" and have a quick solution for that interesting project.

P.S.: I am trying to find out a readily available american dual gate mosfet substitute for the easy to find in Europe BF960/961/980/981. These are black plastic discs with 4 leads in cross shape intended for SM (surface mount) into TV tuners, running as amplifiers and mixers at VHF and UHF. I have no access to U.S. television set schematics, maybe you could find a gem hidden there If you are the lucky man who finds it, please let the list people know ...

73, 72 de Juanjo, EC5ACA/QRP. EA-QRP #104, G-QRP #9742, QRP-L #1662.

Date: Sat, 14 Aug 1999 09:35:32 -0500
From: "Randall K. Kennard" <Firefox@Southwind.Net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [47500] Re: Hot water Handbook appologies to Kanga
Message-ID: <37B57EB3.F89D78AA@Southwind.Net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

First , I want to thank everyone that responded to my request for a copy of the " Hotwater Handbook " . Thanks to you I now have several sources for this book and will soon order one.

Second , I want to make clear that I have nor have I had any ill feelings toward Kanga , as my earlier message may have seemed to have meant. I had only mentioned Kanga because I knew I would get several messages referring me to them and I already knew about them and had tried to contact them. I know most of these sights are ran by people with " real jobs :-)" and they can't be there to answer the phone (or e-mail) all the time.

My apologies to Kanga for any anguish my message might have caused.

Randall

Date: Wed, 11 Aug 99 01:26:17 PDT
From: "Robert Roach" <KE4QOK@worldnet.att.net>
To: jessqrp@earthlink.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47501] Re: QSL'ing
Message-ID: <MAPI.Id.0016.004534514f4b20203030303630303036@MAPI.to.RFC822>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"; X-MAPIextension=".TXT"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

I agree that an SASE is a must if you are serious about getting QSL cards=
. I
gone as far as buying forgien (sp?) postage to send an SASE with a card. =
You
are asking the other station for a favor, the least that you can do is =
make it as
painless as possible.

On one occasion I receive a card back with some ham related awards info =
enclosed,
but since the other ham was using the mailing partly to promote his own =
cause the SASE was
neatly folded inside and returned for my future use.

73
KE4QOK
Bob

> There, now I feel better. Have some class, send the SASE.
>

> Jess AE0CW
>
>

Date: Sat, 14 Aug 1999 10:50:01 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@lehigh.edu>, gqrp@onelist.com, towertalk@contesting.com,
antennas@qth.net, antennaware@contesting.com
Subject: [47502] Dual-Rhomboid Modeling
Message-ID: <Pine.GS0.4.10.9908141046130.11309-1000000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have placed some initial notes on modeling the dual rhomboid (the Laport rhombic) at my site. Part 1 restricts itself to modeling issues and the version of the antenna from QST, Mar, 1997. I hope to have time to look at models of versions more directly related to Laport's work in a part 2 someday--not too far away, but likely not too soon either. I hope the notes are useful to those interested in the dual rhomboid.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\ /\ *	/ / /	Tel: (423) 938-6335
1434 High Mesa Drive	/ \/ \/\	----/\---	http://web.utk.edu/
Knoxville, Tennessee	/\ \ \ \	/ / /	~cebik/radio.html
37938-4443 USA	/ \ \ \ \		e-mail: cebik@utk.edu

Date: Sat, 14 Aug 1999 10:50:10 -0400 (EDT)
From: Caldera OpenLinux User <qrp@cisgw3.law.pace.edu>
To: qrp-l@lehigh.edu
Subject: [47503] Cleaning key contacts - Nye Master Key
Message-ID: <Pine.LNX.4.05.9908141048330.16108-1000000@www.cisg.law.pace.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Does anyone know how you clean key contacts on the Nye-Viking

Master Key? Do you need to? (I know some switches are of the "self-cleaning" variety.)

Thanks,

Dave Williams
NN2D

Date: Sat, 14 Aug 1999 07:57:57 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: qrp@cisgw3.law.pace.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47504] Re: Cleaning key contacts - Nye Master Key
Message-ID: <37B583F5.888C6AB4@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Dave,

I do not know that key, so my advice is not specific, and may not apply.

I own a couple of flexible tools made for polishing relay contacts. They feel smooth to the touch. Bought them at a local electronic store.

Very fine crocus cloth might also work.

The other (non abrasive) approach might be to use a soft cloth and some of the spray compound used for electronic contact cleaning (e.g, I think Radio Shack has such a product).

Phil

Caldera OpenLinux User wrote:

>
> Does anyone know how you clean key contacts on the Nye-Viking
> Master Key? Do you need to? (I know some switches are of the
> "self-cleaning" variety.)
>
> Thanks,
>
> Dave Williams
> NN2D

Caldera OpenLinux User wrote:

>
> Does anyone know how you clean key contacts on the Nye-Viking
> Master Key? Do you need to? (I know some switches are of the
> "self-cleaning" variety.)
>
> Thanks,
>
> Dave Williams
> NN2D

Date: Sat, 14 Aug 1999 11:01:55 -0400 (EDT)
From: Caldera OpenLinux User <qrp@cisgw3.law.pace.edu>
To: qrp-1@lehigh.edu
Subject: [47505] Re: Cleaning key contacts - Nye Master Key
Message-ID: <Pine.LNX.4.05.9908141100270.16108-1000000@www.cisg.law.pace.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks for the info. The Nye Master Key has isolated contacts
inside the shell of the key base. It looks like a job to open
it up. :(

Dave
NN2D

On Sat, 14 Aug 1999, Phil Wheeler wrote:

> Dave,
>
> I do not know that key, so my advice is not specific, and may not apply.
>
> I own a couple of flexible tools made for polishing relay contacts. They
> feel smooth to the touch. Bought them at a local electronic store.
>
> Very fine crocus cloth might also work.
>
> The other (non abrasive) approach might be to use a soft cloth and some
> of the spray compound used for electronic contact cleaning (e.g, I think
> Radio Shack has such a product).
>
> Phil
>
>

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> >
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> > Master Key? Do you need to? (I know some switches are of the
> > "self-cleaning" variety.)
> >
> > Thanks,
> >
> > Dave Williams
> > NN2D
>
> Caldera OpenLinux User wrote:
> >
> > Does anyone know how you clean key contacts on the Nye-Viking
> > Master Key? Do you need to? (I know some switches are of the
> > "self-cleaning" variety.)
> >
> > Thanks,
> >
> > Dave Williams
> > NN2D
>

Date: Sat, 14 Aug 1999 09:05:24 -0600
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [47506] more exciting than rare DX
Message-ID: <001e01bee666\$961d2e20\$8aa8a3cc@S&P.www.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

You know I get a bigger kick outa digging for some weak QSBing
milliwatt QRPp signal out of the noise than workin' rare DX. Now maybe
it's because I'm not an avid DXer (yet) ...but It sure was fun to hear
KA5T/8-Larry's TunaTin 2 @ 250Mw. Nice going Larry!! Ur TT2 was just
whispering above my noise floor almost sounded like a phantom signal
at first. Then I realized it was real.
But I gotcha!Steve/n0tu

-----Original Message-----
From: KA5T Larry Wise <lewise@inetport.com>
To: Steve/n0tu <n0tu@webaccess.net>

Date: Saturday, August 14, 1999 7:59 AM
Subject: QRe: WOW! 250Mw de n0tu

>Hi Steve:

>

>Nice to work you here from Belleville, Michigan, just SW of Detroit....

>We are on vacation visiting relatives and staying here at my
>brother-in-law's place, sort of out in the country with lots of space....

>

>Using my Ugly Tuna Tin - 2 ... Circuit from May 1976 or 75 QST with
>Mods as described in QRPP in the Back to the Future series.....I have
>constructed it using ugly construction techniques...First try at that...Was

>fun to build... not so many parts as to baffle you... :-) I'm using a plastic

>PN2222A in the osc and a metal 2N2219A in the final....Drawing about
>55ma on transmit this morning.....

>

>It is crystal controlled with no VXO, so am limited to the two crystals that

>I have....one about 7.04075, and one about 7.04333.....

>It is running just under 250 mW from a 4AH 12 volt Gel Cell that measures

>12.59 volts this morning....Antenna is a 40 dipole up about 25 feet....

>Heard you with mostly no trouble, except for an occassional QSB fade....

>Using my trusty TS450SAT for a receiver....

>

>Also using the LDG QRP tuner and OHR wattmeter. Although this antenna

>really doesn't need a tuner, it saved me taking it up and down and tweaking

>the length to get it right on 7040.....

>

>Have made about half a dozen contacts on the rig this week.....First time

>I've had it on the air....

>

>So I'll be looking for you again....nice to run into familiar calls....Will

>QSL when I get home in a couple of weeks or so.....

>

>Larry KA5T/8

>

>On Sat, 14 Aug 1999 06:22:25 -0600, Steve/n0tu wrote:
>
>>Hey Larry,
>>
>>What was ur rig?? The QSB took over and I lost u till I heard ur
72s!
>>
>>TU & 72/73 ...Steve/n0tu-Monument,CO

>

Date: Sat, 14 Aug 1999 11:11:38 -0400
From: "Paul Christensen" <paulc@mediaone.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [47507] Hensley Round Presentation Key
Message-ID: <007e01bee667\$4f18d500\$6b588118@se.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

As promised, I have taken some photographs of my new Hensley Round
Presentation paddle. You can see them at:

<http://www.qsl.net/w9ac/hensley1.jpg>

<http://www.qsl.net/w9ac/hensley2.jpg>

Other keys in the W9AC key collection can be seen at:

<http://www.qsl.net/w9ac/>

72/73,

-Paul, W9AC

Date: Sat, 14 Aug 1999 11:37:14 -0400 (EDT)
From: Caldera OpenLinux User <qrp@cisgw3.law.pace.edu>
To: qrp-l@lehigh.edu
Subject: [47508] Re: Cleaning key contacts - Nye Master Key

Message-ID: <Pine.LNX.4.05.9908141135230.16192-100000@www.cisg.law.pace.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The dollar bill trick was taught to me by a HVAC person
who recommended it for thermostats (which have similar contacts).
(HMMMMMMMM, perhaps HAD similar contacts.)

Dave
NN2D

On Sat, 14 Aug 1999, Tom M wrote:

> >
> > Does anyone know how you clean key contacts on the Nye-Viking
> > Master Key? Do you need to? (I know some switches are of the
> > "self-cleaning" variety.)
> >
> > Thanks,
> >
> > Dave Williams
> > NN2D
> >
> Dave,
> Just open it up to get at the contacts,... if your having contact
> problems or are a smoker... other than that, usu not needed.
>
> When cleaning is needed, I usu just take a new dollar bill and insert
> between the points, close same and pull the bill thru a few times.
> This is removes any build-up but does not damage the contacts.
> I WOULDN'T take a file to them!
>
> 73
> Tom aa2vk
>

Date: Sat, 14 Aug 1999 09:34:11 -0600
From: "Rod Cerkoney" <rwc@frii.com>
To: <paulc@mediaone.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47509] Re: Hensley Round Presentation Key
Message-ID: <003b01bee66f\$8700fda0\$3d8711d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

WOW!!!! Vice nice, TNX.

Someday maybe, someday.

72/3 Rod, N0RC
da di dah

----- Original Message -----
From: Paul Christensen <paulc@mediaone.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Saturday, August 14, 1999 9:11 AM
Subject: Hensley Round Presentation Key

> As promised, I have taken some photographs of my new Hensley Round
> Presentation paddle. You can see them at:
>
> <http://www.qsl.net/w9ac/hensley1.jpg>
>
> <http://www.qsl.net/w9ac/hensley2.jpg>
>
> Other keys in the W9AC key collection can be seen at:
>
> <http://www.qsl.net/w9ac/>
>
> 72/73,
>
> -Paul, W9AC
>
>

Date: Sat, 14 Aug 1999 13:15:37 -0400
From: "Charlie Fitts" <cfitts@neca.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47510] SWR/Harmonic Power Question
Message-ID: <199908141715.NAA29698@orion.neca.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If I transmit into a resonant antenna, it seems to me that any harmonics on the signal should be reflected in the SWR. The difference between 2.0 watts out and 2 mW out represents 30 dBm if I did the math right. Is it valid then to assume that if I have over 2 watts forward power and less than 2 mW reflected power (from a resonant antenna) that the sum total of all my harmonics is down by at least 30 dB? All this assumes that I'm not losing a lot of power in the tuner and 300 ohm window line.

I guess another way to ask the question would be if I have a 1:1 SWR when transmitting into a resonant antenna with one rig, and a greater than 1:1 SWR when transmitting into the same antenna with a second rig, does this indicate the presence of harmonics on the signal of the second rig?

TIA for any thoughts you may have on this.

Charlie Fitts, N1EI

Date: Sat, 14 Aug 1999 11:19:58 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [47511] GM4XQJ
Message-ID: <Pine.LNX.3.95.990814111731.8586H-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hey gang!.... Brian, GM4XQJ is on 14.060, 1712Z, in the Canadian QRP-C
Happy Birthday Sprint....we worked 2xway qrp....go get 'im!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Date: Sat, 14 Aug 1999 12:34:09 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: <cfitts@neca.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [47512] Re: SWR/Harmonic Power Question
Message-ID: <003a01bee67b\$382d2080\$f137a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Charlie Fitts, N1E wrote:

"Is it valid then to assume that if I have over 2 watts forward power and less than 2 mW reflected power (from a resonant antenna) that the sum total of all my harmonics is down by at least 30 dB?"

Only if you know that all harmonic frequencies are totally reflected by the antenna system (probably not) and that your SWR/power meter is calibrated at all frequencies of concern when calibrated at the fundamental (maybe so, maybe no).

"...if I have a 1:1 SWR when transmitting into a resonant antenna with one rig, and a greater than 1:1 SWR when transmitting into the same antenna with a second rig, does this indicate the presence of harmonics on the signal of the second rig?"

It probably indicates harmonics or some other spurious emission. If the power output of the rigs are different, it could just mean that the meter is nonlinear and not totally accurate. I've had this problem with some commercial SWR meters.

Until I got it adjusted properly, my 38 Special had this problem because the PA was self-oscillating at about 100 kHz causing strong sidebands +/- 100 kHz from the desired frequency. Since my antenna was relatively narrowband, the indicated SWR would increase.

You have a good idea but I think there are just too many variables to be certain.

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://home.swbell.net/aa5tb>

Date: Sat, 14 Aug 1999 14:42:40 -0300

From: Dave Marling <dbm@klis.com>

To: w7ox@mindspring.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [47513] Re: Cleaning key contacts - Nye Master Key

Message-ID: <37B5AA90.ECF15459@klis.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Try a strip of paper cut from a heavy brown paper bag wet with either contact cleaner or isopropyl alcohol. This normally works quite well. Stay away from anything abrasive.

Dave
VE1VQ

Date: Sat, 14 Aug 1999 11:09:51 -0700 (PDT)
From: Brad Bradfield <b_bradfield@yahoo.com>
To: qrp@cisgw3.law.pace.edu, qrp-l@lehigh.edu
Subject: [47514] RE: Cleaning key contacts - Nye Master Key
Message-ID: <19990814180951.11742.rocketmail@web205.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello Dave and the group - -

I know we've talked about this here on the list before, but here goes again. If the contacts in question are silver, they virtually never need cleaning. If you look closely at silver contacts, they will usually show a splotchy layer of light black gunk on the contact. This is silver oxide, and is virtually as good a conductor as silver itself. In other words, it does not need cleaning. About all you'll ever need to clean from silver contacts is surface dust and dirt. Do this by placing a clean lint free cloth between the contacts, press down, and drag the cloth back out between the contacts. a bit of denatured alcohol on the cloth will help too, but is not absolutely necessary. Stay away from the small metal cleaning strips mentioned before like the plague. They are abrasive and slowly remove small amounts of the surface of the contact. If the contact is plated instead of solid silver, before you know it, you'll have no silver left and you'll be down to the base metal, whatever that is, probably brass. Trust me, you don't want this to happen.

In short, other than removing dust and dirt, you shouldn't need to clean the contacts on your Nye.

Oh, well.

72's es 73's,

Brad, W5CGH

===

Brad Bradfield, PE Systems Engineer
W5CGH (ex WB0CGH) Raytheon Systems Company

Real men talk with their fingers!!

NORTEX QRP-L #377 QRP-ARCI SMIRK #4906
ARS #72 NORCAL Austin QRP Club #e

Do You Yahoo!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: 14 Aug 99 14:25:04 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: cfitts@neca.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [47515] Re: [SWR/Harmonic Power Question]
Message-ID: <19990814182504.19568.qmail@nw173.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Charlie,

Your thinking is pretty good. There are lots of variables and with amateur gear and amateur measurements, you have to always be careful and try to find ways to cross check everything to be sure that the variables aren't negating your results. If the antenna is resonant at only one amateur band(say 40 meters) and not at 14,21,28,etc. then its fairly safe to say that your conclusion is accurate, assuming that your watt meter isn't more inaccurate towards its low end. =

73 Roy Lincoln WA4DOU Elm City, N.C.

=

=

=

"Charlie Fitts" <cfitts@neca.com> wrote:

If I transmit into a resonant antenna, it seems to me that any harmonics =
on
the signal should be reflected in the SWR. The difference between 2.0
watts out and 2 mW out represents 30 dBm if I did the math right. Is it
valid then to assume that if I have over 2 watts forward power and less
than 2 mW reflected power (from a resonant antenna) that the sum total of=
all my harmonics is down by at least 30 dB? All this assumes that I'm no=
t
losing a lot of power in the tuner and 300 ohm window line.

I guess another way to ask the question would be if I have a 1:1 SWR when=
transmitting into a resonant antenna with one rig, and a greater than 1:1=
SWR when transmitting into the same antenna with a second rig, does this
indicate the presence of harmonics on the signal of the second rig?

TIA for any thoughts you may have on this.

Charlie Fitts, N1EI

Date: Sat, 14 Aug 1999 15:11:32 -0400
From: "Al Gritzmacher " <ae2t@arrl.net>
To: hamradiolighthouses@listbot.com, qrp-1@Lehigh.EDU
Subject: [47516] Thirty Mile Point Light activity for International Weekend
Message-ID: <199908141910.PAA18159@mx2.localnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Hi,

I'm happy to report that the Thirty Mile Point Lighthouse (Barker,
NY - Lake Ontario) will be represented during the event by the
Newfane DX Association, N2SEX/LGT.

Myself, AE2T and WA2RZJ will be setting up and operating from
the Carriage House at the Lighthouse. We have gotten clearance
from the Lighthouse Historical Society and the special use permit
from the State Parks people is on the way.

We will be setting up two stations and manning them as long as

conditions permit and we can stand it!!! Since we will be camping out there, we will also be doing all the camping things as well, so have to make time for it all.

We have invited some other operators, so it is possible we may have more help keeping them on the air.

To our knowledge, this Lighthouse has never been activated for the Lighthouse Weekend before.

QSL info: N2SEX - Newfane Dx Assoc. CBA or:
P. O. Box 730
Lockport NY 14095

We will have special cards for the lighthouse event. An SASE would be appreciated.

We will also be doing some QRP activity on CW either the Lighthouse event frequencies, or QRP calling frequencies.

I had sent information about this in to the Lighthouse Day coordinator, but never got a reply or saw it listed on the web page. It must have gone into the bit-bucket somewhere.

For more information: <http://members.localnet.com/~ae2t/ndxa/>

=====
73,

Al AE2T
ae2t@arrl.net
Geratol #1800 QRP-L #1664 QRP-ARCI #9837 K2 #274
<http://members.localnet.com/~ae2t/>
<http://skyport.com/geratol/>
<http://hamgate1.sunyerie.edu/~lara/>

Date: Sat, 14 Aug 1999 13:16:05 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [47517] 40 mtr fox hunt & Teams
Message-ID: <Pine.LNX.3.95.990814125554.19798B-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

OK folks....another season of fun, learning and surprises is just around the corner....the following information shows the Teams that have formed

up already for the Team competition....one question has been asked; what if a Team member is the fox?....no problem; I just add 1 contact point for that station for that fox hunt....that's what I did last year and it seemed to work out with no problem and nobody got upset....here are the teams so far in alphabet soup order, left to right...please let me know of any typos, etc:

Houston Hounds:

Bill - K5ZTY

Bill - W5SB

Terry - KQ5U

Dan - KK5LD

Mangy Mushers:

Pete - NV4V

Paul - VE7CQK

Bruce - N7RR

Ed - K1VP

Raiders of the Lost RF:

Fred - VE3FUL

Earl - VE6EWM

Bruce - VE5RC

????????????(looking)

SWORDS:

Rick - WB6JBM

Andy - KC8KFI

Doc - K0EVZ

Dan - N8IE

Team ScQRPian:

Floyd - NQ7X

Gary - AB7MY

Conrad - WS4S

Bob - KI7MN

...I also have rumours of 2 other teams forming and would you believe one of them is a milliwatt Team, as in mW?....now there's a challenge!...seems like the HOUSTON HOUNDS are determined to have their names on the Team plaque for a second time in a row!....well they definitely pulled away from the hunters last time to produce the win; will their challenge go unanswered this year?...what if the milliwatters take the plaque this time?....stay tuned!.....there's plenty of room for more teams, so just let me know via e-mail.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Date: Sat, 14 Aug 1999 15:15:34 -0500

From: George F Franklin <w0av@juno.com>

To: qrp-l@lehigh.edu

Subject: [47518] Want WW2 Command Set

Message-ID: <19990814.151616.-325979.1.w0av@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,

Does anyone have a WW2 command set TX in their junque collection.

I would like to have the 7.0 to 9.1 MHz. version in black crackle finish, but would consider others. I don't need the tubes. The unit should be complete and in good physical shape.

I intend to make a QRP transceiver out of it, of course.

Will pay cash or trade good stuff.

72 de George/W0AV

Date: Sat, 14 Aug 1999 14:21:04 -0600 (MDT)
From: af852@rgfn.epcc.edu (William R Colbert)
To: qrp@cisgw3.law.pace.edu, qrp-1@lehigh.edu, w5xe@juno.com
Subject: [47519] Re: Cleaning key contacts - Nye Master Key
Message-ID: <199908142021.0AA23219@rgfn.epcc.edu>

That will work, but one thing I have always used was a strip of bond (typing paper or xerox these days) and apply light pressure to the contacts and lightly pull the paper thru, a couple of passes may be necessary. You will notice the dirt streaks on the paper and when no more are left, they should be good to go. I use that method on my bugs and keyer paddles.

73

Ray

--
Ray Colbert, W5XE
00TC 3618, SOWP 1064M
El Paso, Tx (FAR WEST TEXAS!)
also: w5xe@juno.com

Date: Sat, 14 Aug 1999 14:22:56 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [47520] 40 mtr fox hunt & Teams (fwd)

Message-ID: <Pine.LNX.3.95.990814141213.25228B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...we have a new entry....the Oklahoma Tornadoes!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Houston Hounds:

Bill - K5ZTY
Bill - W5SB
Terry - KQ5U
Dan - KK5LD

Mangy Mushers:

Pete - NV4V
Paul - VE7CQK
Bruce - N7RR
Ed - K1VP

Oklahoma Tornadoes:

Cliff - AB5UA
Royce - KE5TC
Don - K5AAR
Gody - AC6UV

Raiders of the Lost RF:

Fred - VE3FUL
Earl - VE6EWM
Bruce - VE5RC
??????? (looking)

SWORDS:

Rick - WB6JBM
Andy - KC8KFI
Doc - K0EVZ
Dan - N8IE

Team ScQRPian:

Floyd - NQ7X
Gary - AB7MY
Conrad - WS4S
Bob - KI7MN

.....there's plenty of room for more teams, so just let me know via
e-mail please.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Date: Sat, 14 Aug 1999 14:23:09 -0600 (MDT)
From: af852@rgfn.epcc.edu (William R Colbert)
To: nease4@newnorth.net, qrp-l@lehigh.edu, w5xe@juno.com
Subject: [47521] Re: Tire Static Interference
Message-ID: <199908142023.0AA23320@rgfn.epcc.edu>

Besides using the graphite, there was also a set of bronze spirals available that went inside the wheelbearing cup to press against the wheelbearings and the race, making a ground connection. If you can find a copy of one of the older ARRL or CQ Magazine Mobile Radio Handbooks it will have a lot of this info in it for you. The books may be old, but the info is still useful, in most cases. I don't think ARRL publishes theirs any longer, too bad as still a desirable source of info. The CQ book has been out of print even longer. Do you have a static drag on the truck? Guess the only ones I see them on any more are hazmat tankers.

GL & 73

Ray

--

Ray Colbert, W5XE
OOTC 3618, SOWP 1064M
El Paso, Tx (FAR WEST TEXAS!)
also: w5xe@juno.com

Date: Sat, 14 Aug 1999 13:27:20 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: w0av@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47522] Re: Want WW2 Command Set
Message-ID: <37B5D128.CAB5034D@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

George F Franklin wrote:

>
> I would like to have the 7.0 to 9.1 MHz. version in black crackle finish,
> but would consider others. I don't need the tubes. The unit should be
> complete and in good physical shape.
>

Ah, the nostalgia and some pain. That was my first radio (non xtal) in the 50s. But I had the 4-5.3 (or whatever) model but moved it down to be 3.5 to 4.0 mHz, and added a doubler to get to 40 m, too. Stored it and other stuff with a "friend" when I went off to graduate school; he moved without notice, and I never saw it again!

No big loss: I'm now using my K2, while the big iron (TS-570DG plus 800 watt amp) gathers dust.

> I intend to make a QRP transceiver out of it, of course.
>

What, no happy glow of tubes to keep you warm on a cold winter night??

Phil

Date: Sat, 14 Aug 1999 14:38:34 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [47523] QRP-C Happy Birthday sprint
Message-ID: <Pine.LNX.3.95.990814143007.26830A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well I spent 4 hours checking 10 & 15 mtrs cw.....calling CQ HB.....but the pickin's were very slim indeed.....zilch actually...HI HI...ended up on 20 mtrs where I heard and worked Brian, GM4XQJ, 2xqrp (YAH00!) and with about 20 minutes to go, I heard John, VE3JC/m on his bicycle and we managed the exchange for my second contact....now we'll see what tomorrow brings with SSB QRP!...you know you're a true qrp'er when you comb the bands for 4 hours; you have 2 contacts and you've had FUN!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Date: Sat, 14 Aug 1999 16:48:05 -0700
From: Robert P Engelman <rengelwb8uoj@juno.com>
To: qrp-1@lehigh.EDU
Subject: [47524] QRP RADIO HELP
Message-ID: <19990814.164809.-71977.0.rengelwb8uoj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I want to start out by saying that this is the best net and has the greatest, most helpful people in the free world on it !!.

The schmoozing out of the way, I'm in need of more help. Built a 624 Kits Deeluxe XCVR in '93 and am just getting around to trying it. Finally got the antenna height problem straightened out and borrowed a TS-830 s to try to finalize the alignment. To my surprise (not really), I can't get the offset set properly. Rcv is at 7040 and the XMIT is at best at 7037.

The rig is based on a design by Gary Breed, and I think that i've found out where the schematic came from. It seems that in the DEC. 1990 / JAN 1991 QST, Mr. Breed has the articles that I think cover this radio. The dilemma is does anybody out there have these QST's that would make me copies of the article and schematics and be willing to send them to me ???. I would of course make restitution for copies and mailing.

Or, is there some body out there who could help me to correct this offset problem ???. When I talked to 624 kits in early 1994, he did mention something about the BFO frequency being off. Not realizing that the rig was un usable this way, I didn't proceed to ask any questions. Of course now, in 1999, it seems that 624 Kits is no longer around.

I want to mention publicly thanks to Mac KF4SM and Dave N0IT along with all the others who have responded to my pleas in the past.

I'm hoping to atleast get the 830 on the air this evening, probably around 7040 +/- . I'm looking forward to getting this QRP rig straightened out.....

Thanks in advance,

Bob WB8UOJ

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 14 Aug 1999 13:49:27 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: ratttray@gpfn.sk.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [47525] Re: QRP-C Happy Birthday sprint
Message-ID: <37B5D657.AAE81B62@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bruce Rattray wrote:

>

> Well I spent 4 hours checking 10 & 15 mtrs cw.....calling CQ HB

Hmmm .. Bruce, if I had heard you, I would have assumed you were looking for a Swiss station.

Phil

Date: Sat, 14 Aug 1999 17:00:00 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [47526] Web Page Host (non-QRP)
Message-ID: <000f01bee698\$0035dce0\$7be508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello,

Sorry for the non-QRP related post.

This is for all those guys out there that edit a Club
Web page or their own Web page.

Does anyone have experience with this free Web Page
host? How do you like it?

<http://homepages.msn.com/>

Do you use Front Page 98? If so please go on.

I am looking for a new site to place my QRP Club's
Web page, I am using Front Page 98 and I would like
to continue to do so. Where do you have you Web page at?

Thanks for you time and patience.

72 & 73

Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
http://www.kpsnet.com/wb3aal/Start_Page.htm
Eastern Pennsylvania QRP Club Call --> N3EPA

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal #	Zombie #625
ARS # 380	Bumblebee #15

SETI @ Home Project
<http://setiathome.ssl.berkeley.edu>

Date: Sat, 14 Aug 1999 17:04:03 -0400
From: "Dieter Gentzow WB8QYY" <wb8qyy@one.net>
To: <qrp-1@lehigh.edu>
Subject: [47527] Worked Larry
Message-ID: <002901bee698\$8a4fdde0\$0102030a@amd300>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey All,

Worked Larry this afternoon on my 2 watt Tentec 1340 with dipole at 33 ft.
rcvd a 559 ; sent 349; not bad for 250,000 microwatts.

72
Dieter WB8QYY
K2# (ordered) Ten-X 9389 SSN # etc....

Date: Sat, 14 Aug 1999 16:55:48 -0400
From: "The One and Only!" <mitch96@pobox.com>

To: paulc@mediaone.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47528] Re: Hensley Round Presentation Key
Message-ID: <37B5D7D4.7C246BB5@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Paul Christensen wrote:

>

> As promised, I have taken some photographs of my new Hensley Round
> Presentation paddle. You can see them at:

Wow! from me also. Btw, Paul, how much does it weigh? Is that polished brass or "Lexus Gold" plating? Or is it gold?? ;^)
Just curious, Im getting a Kg2eD Merc replica soon an was wondering about the weight. The Merc's that were carved out for the keyer must have been lighter. Did they "dance" more or were they about the same. What could a few ounces of brass be in relation to the whole paddle. Rich is in the process of weighing the keys and I wonder if any listers who have a original N2DAN Mercury paddle know the weight. My Kent is pretty stable, but then again its built WIDE. corners well too!

73, mitch ww4ml
lost in the eithers again..

Date: Sat, 14 Aug 1999 16:29:00 -0500
From: George F Franklin <w0av@juno.com>
To: w7ox@mindspring.com
Cc: w0av@juno.com, qrp-1@Lehigh.EDU
Subject: [47529] Re: Want WW2 Command Set
Message-ID: <19990814.162900.-238159.0.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Phil,

Sounds as though you also have fond memories of the command sets.

Right after WW2 I built all sorts of rigs from command sets, including a 20M SSb transmitter (later converted to 160SSB) and a 40M CW transceiver.

Now I want to build a solid state transceiver w/antenna tuner in one of them if I can find one.

There must be lots of them out there somewhere.

I also converted the command receivers to various uses, including 2M with an outboard converter. Worked great!

Thanks for the memories, Phil.

72 de George/W0AV

Date: Sat, 14 Aug 1999 14:48:36 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: w0av@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47530] Re: Want WW2 Command Set
Message-ID: <37B5E434.C15BCD8F@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

George F Franklin wrote:

>
> There must be lots of them out there somewhere.
>

My first two meter (am!) radio was a command set .. designed for VHF.
Forget the model number, tho.

I did see some command sets (receivers, though) at the TRW swap meet two weeks ago. Seems like, for QRP plus tuner, the RX might be as good as the TX.

Phil

Date: Sat, 14 Aug 1999 14:54:43 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: rengelwb8uoj@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [47531] Re: QRP RADIO HELP
Message-ID: <37B5E5A3.F1D81210@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Robert,

The BFO explanation sounds right, or could be right.

My first recommendation is to blow it off and get a new kit (e.g., NC-40A from Wilderness Radio) that is fully supported.

But, if you are really determined, I do have a copy of the article (both parts) which I just printed from CDRom. If you have a fax, I can fax it now (preferred). Or I can send it by snail mail.

Just send me your address and/or fax number by private email.

Phil

Robert P Engelman wrote:

>
> The rig is based on a design by Gary Breed, and I think that i've found
> out where the schematic came from. It seems that in the DEC. 1990 / JAN
> 1991 QST, Mr. Breed has the articles that I think cover this radio. The
> dilemma is does anybody out there have these QST's that would make me
> copies of the article and schematics and be willing to send them to me
> ???. I would of course make restitution for copies and mailing.
>
> Or, is there some body out there who could help me to correct this
> offset problem ???. When I talked to 624 kits in early 1994, he did
> mention something about the BFO frequency being off. Not realizing that
> the rig was un usable this way, I didn't proceed to ask any questions.
> Of course now, in 1999, it seems that 624 Kits is no longer around.
>

Date: Sat, 14 Aug 1999 15:10:36 MST
From: "Chuck Adams, K7Q0" <k7qo@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [47532] Recipients List
Message-ID: <19990814221036.42251.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Gang,

Do me a favor if you haven't done this lately.

Send email to

listproc@lehigh.edu

and in the body of the message put

recipients qrp-l

and you will get back a 2890+ line list of who subs to this group. It's the who's who of the QRP world.

Please, please, look down this list for your line(s). Make sure it matches the format of the others, i.e. it has your name and callsign. I think it is about time for some housecleaning and you just might find that you have been deleted from QRP-L because we don't know who you are.

If you want to change the line, then do an unsubscribe:

To listproc@lehigh.edu put in body of message:

unsubscribe qrp-l

then to listproc@lehigh.edu put in body:

subscribe qrp-l Your Name Call

subscribe qrp-l Chuck Adams K7QO (replace me with your name & call)

And when you do this, don't worry about your QRP-L number. It won't change and won't ever change. It's like your Zombie number.

Also make sure you send these commands to listproc@lehigh.edu and not to the other address that sends it to all of us and gets you email from the network police.... :-)

Thanks. This because I'm was trying to find J. Bohnert and R. Arzadon. Would you two guys email me direct.

Also, note the new email address for me for a few months until I get moved and setup in AZ with a local ISP. Those

using hotmail.com might send me email offline on how I go about including text into a message from the local hard drive on the PC, if I can do this.... Continued struggle of dweeb against the machine(s). Machines are winning in my case. They're out to get me like the man from planet X.

Thanks in Advance,

Get Free Email and Do More On The Web. Visit <http://www.msn.com>

Date: Sat, 14 Aug 1999 15:20:59 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: k7qo@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [47533] Re: Recipients List
Message-ID: <37B5EBCB.5AA66D1A@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

"Chuck Adams, K7Q0" wrote:

> I think it is about time for some
> housecleaning and you just might find that you have been
> deleted from QRP-L because we don't know who you are.
>

But Chuck, if that happened, how would we have gotten this message?

Phil

Date: Sat, 14 Aug 1999 18:30:20 -0400
From: "The One and Only!" <mitch96@pobox.com>
To: marv sachs <Sachsarch@aol.com>
Cc: TEN TEC LIST <tentec@contesting.com>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [47534] Just arrived "Pre Owned" TenTec Omni-C-/qrp of course.
Message-ID: <37B5EDFC.D765DCC5@pobox.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It arrived Yesterday. On a scale of 1-10 its a 9 in my book. some scratches on the side of the aluminum trim ring. They polished up ok but if you look you can still see them. The vinyl is worn a bit in the back. the rig is vinyl covered and where it comes around the top, in the back, it is worn out, no, more like "bit off". just a few scratches by the "vfo out" plug in the back. THAT'S IT. Looked inside.....Wow. this rig is like a '56 chevy, you can climb in and work on this thing. two feet between components on the boards. and the boards are the size of rhode island!! it reminds me of the old litton/ratheon xray machines i use to work on. big, clunky and reliable. Even "smells" like one, too! This is probably technological over kill for QRP work but what the hell, to own the latest in early '80s technology is such a thrill!!!!!! I'll take that power supply now, Rich. I will send the check on Monday! Also ordered the Inrad 400hz filter today.....toys for the toys. What the hell, ur only 50 once. Today is my birthday and this is my gift to myself, from myself thankYouVeryMuch.....
So far my plan to live forever are on track. one day at a time, breath in.....breathOut.....
breath in.....breathOut.....yup i can do this.....
what?
--
73, mitch ww4ml
lost in the ethers again..

Date: Sat, 14 Aug 1999 22:35:54 +0200
From: Anita och Lars Olsson <anita.lars.olsson@telia.com>
To: qrp-l@Lehigh.EDU
Subject: [47535] Hensley Round Presentation Key
Message-ID: <37B5D30D.6318@telia.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Paul,
Just a few lines to tell you how much I like the pictures. I wonder what kind of camera you have used. The result was top quality!
Thanks very much Paul and to all other QRPers go and have a look at

<http://www.qsl.net/w9ac/hensley1.jpg>

<http://www.qsl.net/w9ac/hensley2.jpg>

73 de Lars / SM3AVQ
Proud owner of Mercury paddle #287
and a CMOS Super Keyer III.

Date: Sat, 14 Aug 1999 18:36:41 -0400
From: "The One and Only!" <mitch96@pobox.com>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47536] Re: Recipients List
Message-ID: <37B5EF79.4D7479C7@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>
> But Chuck, if that happened, how would we have gotten this message?
>
> Phil

dodedodo, dodedodo.....no there is nothing wrong with ur computer,
you have just entered the twilight zone..... (good propagation i
here, also!)

--
73, mitch ww4ml
lost in the ethers again..

Date: Sat, 14 Aug 1999 15:42:28 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: k7qo@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47537] Re: Recipients List
Message-ID: <37B5F0D3.E60C7F99@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Chuck,

I see the need: Many stalwarts are listed more than once. Plus some
have really odd names.

I'm in there twice. Correct listing is the reply address of this message.

The "ix.netcom.com" listing should be deleted.

BTW .. I see that Mr. Arzadon has same email as listed at QRZ, but Mr. Bohnert's address is slightly different.

Re the unsubscribe/ subscribe routine: Would that not just remove my *correct* listing and leave the incorrect one in place?

Please advise.

Phil

Date: Sat, 14 Aug 1999 18:47:00 -0400
From: "Tim Cook" <timcook@erinet.com>
To: "[Ten Tec] - Reflector" <tentec@contesting.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [47538] FS: TT Triton 540
Message-ID: <00f501bee6a6\$ec103f80\$0b6b5acf@timcook.erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I recently bought a Ten Tec 540 to use mobile and camping, but since then I also ended up getting a OHR100A. Consequently, I am going to sell the 540. I do so reluctantly because this is the nicest 540 I have owned (and I have had several). It looks like it has just set for it's entire life. There are no rub marks on the face, and all the lettering is bright and clear. The inside is just as clean. The serial number is 540-2695. It is stock as it comes from the factory, no options. The manual is missing, but I am sure Ten Tec has them. The only thing that could use attention is the PT0, it certainly doesn't need a "rebuild" due to worn parts with the obvious little use, but it could use the old grease removed or cleaned out and replaced with some new stuff. If you are familiar with the Ten Tec PT0's you know this is very common with age. If you are in the market for a 540, this is probably the nicest one with the least use you will find. I am asking \$235 + shipping for it. Please email direct if interested.

thanks

Tim

NZ8J

End of QRP-L Digest 1548
